

**Amendments to the Claims:**

This listing of Claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

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Claims 1-10 (canceled)

Claim 11 (new): In a hydraulic gear pump adapted to be mounted in a cavity, said pump comprising,

- (1) a gear housing,
- (2) a pair of intermeshing gears located operationally in said gear housing,
- (3) means for rotating said gears in pumping rotation,
- (4) cover means, located on each side of the intermeshing gears and the gear housing, said cover means being located in generally flush coextensive abutment with said gear housing and said intermeshing gears, to define a predetermined path for fluid leading from an inlet to an outlet port; the improvement;

20 wherein said outlet port is positioned proximate said predetermined path of said pumped fluid, and the total outer surface area of said pump and cover means is greater than the interior surface area of the pump, whereby pumped fluid tends to create a pressure and force within said pump, which is transmitted to the fluid exiting said outlet and proceeding into said cavity surrounding said pump, said pressure/force being at least as great as the pressure of the liquid within said pump, whereby said cover members are urged against the corresponding face of the gear housing with minimal or no outside support.

Claim 12 (new): A hydraulic gear pump adapted to be mounted in a cavity, said cavity being adapted to contain fluid to be pumped, said pump comprising,

- 1) a gear housing, and
- 2) a pair of intermeshing gears located operationally within said gear housing having oppositely facing surfaces, said intermeshing gears and gear housing having oppositely facing surfaces,
- 3) cover means located on each side of the gear housing, in generally flush abutment with the surfaces of said gear housing and

said intermeshing gears within, and one of said cover means having a fluid inlet region, and an outlet region for fluid,

4) means for rotating said intermeshing gears in pumping rotation sufficient to move fluid therethru, but confined by said cover means, to a pre-determined path for any fluid pumped by rotation of said intermeshing gears, one of said cover members having an outlet port formed therein located proximate said pre-selected path and an inlet port for fluid leading to the inlet region, whereby fluid entering the pump thru the inlet port is urged thru the rotating gears and thru the outlet, in fluid continuity, whereby the pressure developed by said counter rotating gears is propagated thru all of said fluid in the cavity whereby the hydraulic pressure is no greater inside the pump than outside the pump thereby obviating or minimizing structural support.

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Claim 13 (new): A hydraulic gear pump adapted to be mounted in a cavity, said pump consisting of a gear housing; two cover members, one on each side of the gear housing, coaxially mounted on a common longitude axis; a pair of intermeshing gears in said gear housing, carried respectively by a drive shaft and an idler shaft, said drive shaft being drivingly connected to the gears and parallel to said longitudinal axis; and wherein the cover members are characterized by an outside axial area larger than the inside axial areas, on each side, whereby, said cover members are hydraulically clamped to each side of the gear housing by the force generated by said pump in the fluid surrounding said pump in said surrounding cavity.

Claim 14 (new): A pump, as claimed in CLAIM 13, wherein as located within a cavity, the gear housing, and cover members are surrounded by fluid having a generated pressure by the rotation of said pump, whereby the pressure on the inside and the outside of the pump is essentially the same thereby equalizing the radial forces on the gear housing resulting in less stress in said gear housing.

Claim 15 (new): The pump as claimed in CLAIM 22, which include a pair of dowel pins for locating the gear housing in registry with the two covers and being located on the suction side of the gear housing and said drive shaft and said idler shaft being parallel to the longitudinal axis of said pump to thereby minimize gear housing deflection.

Claim 16 (new): A pump as claimed in CLAIM 15, wherein the gears are bi- rotational and fluidly connected to a linear motor which extends, retracts and holds by reason of a functionally located inlet check valve and an outlet check valve and a pilot operated check valve serving to control the direction of movement of said fluid.

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Claim 17 (new): A pump as claimed in CLAIM 22, which includes a radial seal located approximately at the longitudinal center of said pump to divide said cavity into two separate chambers, one of which is fluidly connected to one side of a piston in the hydraulic cylinder and the other one is fluidly connected to the other side of the piston of said hydraulic cylinder.

Claim 18 (new): An electro hydraulic linear actuator mechanism consisting of an electric bi-rotational motor, a bi-rotational hydraulic pump fluidly connected to a hollow hydraulic body inclusive of an oil reservoir generally concentrically located with respect to and surrounding said hydraulic pump, said pump having no connection to the outside atmosphere, said assembly defining an interior volume having forty to sixty percent of said volume occupied by fluid and the rest air; all elements/components concentrically located upon a longitudinal axis.

Claim 19 (new) An electro hydraulic linear actuator as claimed in CLAIM 18 wherein the bi-rotational hydraulic pump is located in the end cap of the hollow hydraulic body.

- Claim 20 (new) An electro hydraulic linear actuator as claimed in CLAIM 19 wherein the end cap and the rod end cap are connected by the same cylindrical structural member embracing all of the components thereof.
- Claim 21 (new): A pump as claimed in CLAIM 14 which includes two or more dowel pin means to better locate the gear housing relative to the covers and the gears.
- Claim 22 (new) The pump as claimed in CLAIM 11 wherein the gear housing and the cover members are surrounded by the pump's generated pressure (forces) whereby the pressure on the inside and outside are essentially the same.
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Claim 23 (new) An electro hydraulic, linear, actuator mechanism, comprising a bi-rotational electric motor, a bi-rotational hydraulic pump as in CLAIM 22 fluidly connected to a hydraulic cylinder inclusive of a fluid reservoir concentrically located with respect to and surrounding said hydraulic pump, said pump having no connection to the outside atmosphere, said assembly defining an interior volume having forty to sixty percent of said volume occupied by fluid and the rest air or other inert gas; all elements/compounds concentrically located upon a longitudinal axis. *new 2*
- Claim 24 (new): An electric hydraulic actuator as in CLAIM 23 wherein the said end cap and said rod end cap are secured to the cylindrical structural member by means of crimping same into grooves in the end cap. *new*
- Claim 25 (new) An electro hydraulic actuator as in CLAIM 24 wherein the electric motor, the drive shaft of the pump and the hollow hydraulic body are located generally concentric to each other.

Claim 26 (new) The pump as claimed in CLAIM 13 fitted in a cavity in a hollow body which has one inlet port and two outlet ports and an electric motor drivingly connected to the pump which is generally concentric to said body.

Claim 27 (new) A hydraulic gear pump as claimed in Claim 13 which includes end cap members, one on each side of the cover members, and concentric therewith, said end cap members each having facing surfaces which are machined to be compatible with the adjacent facing surfaces of the cover members to define passageways and voids for ball valves in keeping with the spirit and scope of the present invention.

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Claim 28 (new) The improved gear pump as claimed in Claim 11 wherein said internal passageways are machined to contain a plurality of ball check valve means, constructed and arranged to control or direct fluid to one or the other of said outlets, depending upon the direction of rotation of movement of said intermeshing gears in clockwise (cw) or counterclockwise (ccw) rotation and means enclosing said bi-rotational pump such that the pump parts are surrounded by the fluid being pumped, said fluid exhibiting the pressure developed by the pump itself.

Claim 29 (new) The improved bi-rotational gear pump as claimed in Claim 28.

Claim 30 (new): A pump as claimed in Claim 13 wherein the gear housing is surrounded by a fluid having generated pressure by the rotation of the pump, wherein the pressure or force outside the pump is at least equal to the pressure on the inside of the pump resulting in less stress inside said gear housing.